

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P632702

Luminaire Tested: GWS-SA2D-730-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632702  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-730-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

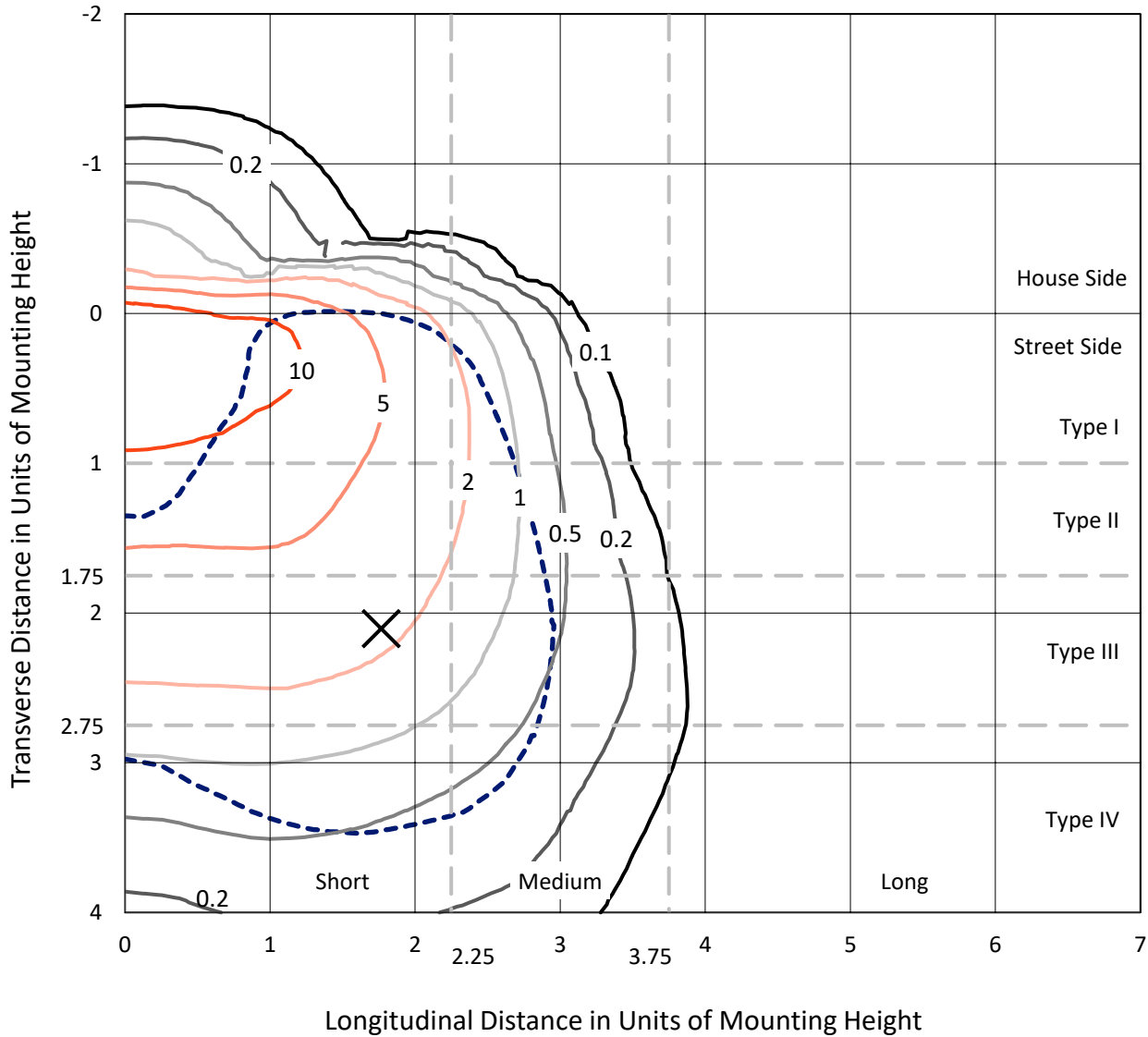
Lumens per Lamp: N/A  
Luminaire Lumens: 8377.4 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

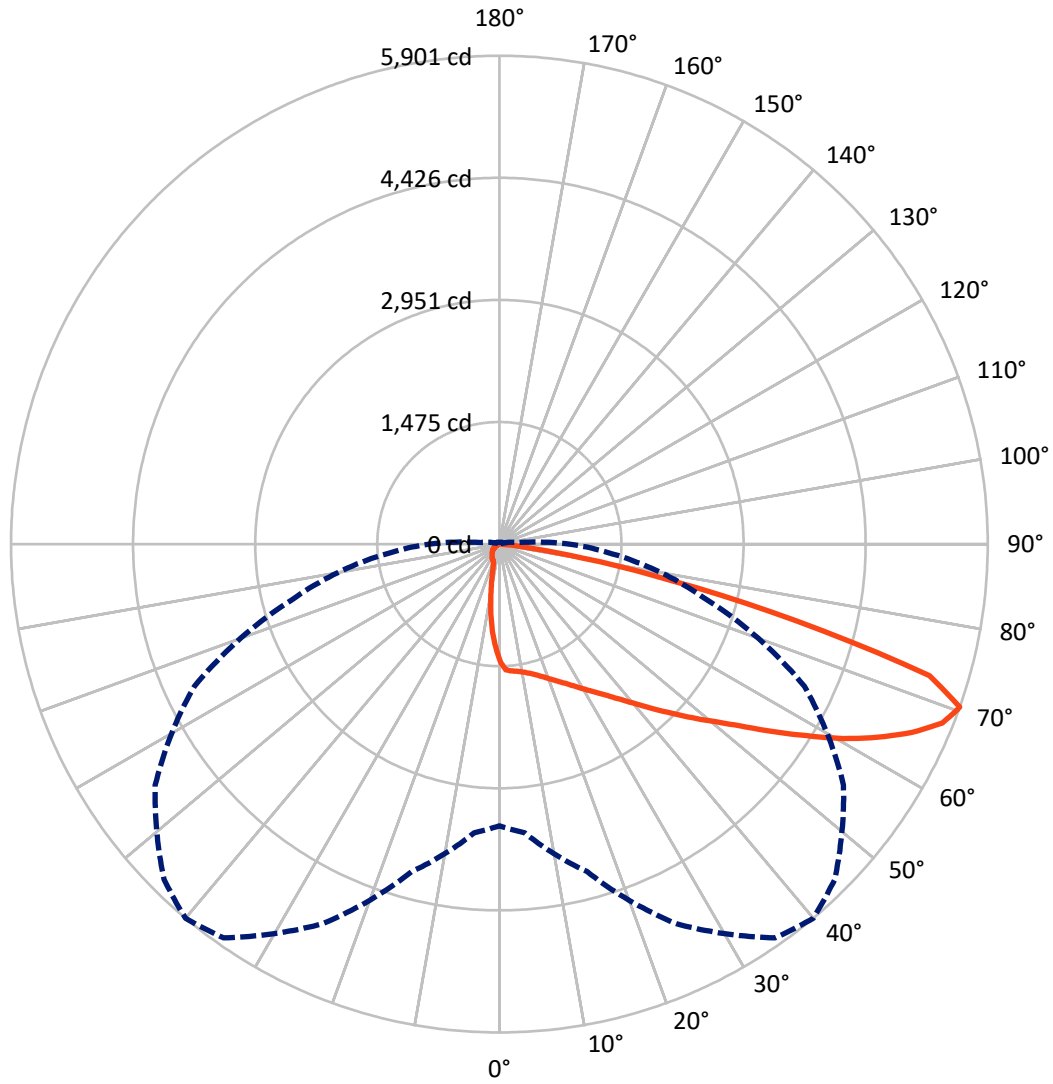
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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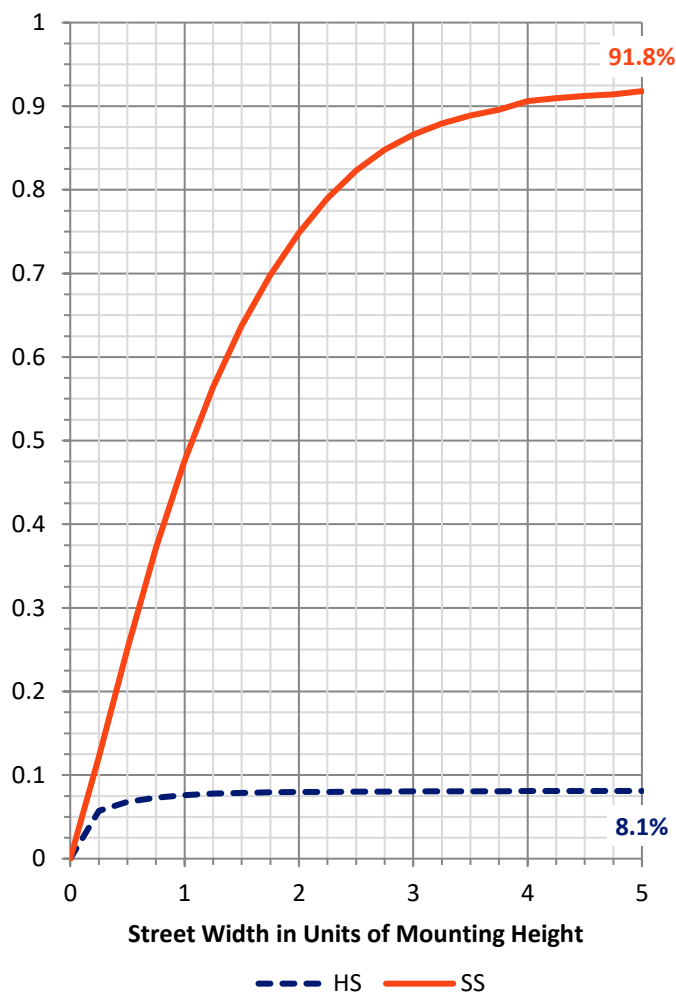
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	685.1	0.0	685.1
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	7692.3	0.0	7692.3
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	8377.4	0.0	8377.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.1	1.4
10°-20°	304.7	3.6
20°-30°	510.0	6.1
30°-40°	801.0	9.6
40°-50°	1267.0	15.1
50°-60°	1848.3	22.1
60°-70°	2291.2	27.4
70°-80°	1159.2	13.8
80°-90°	75.7	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8377.4	100.0
0°-180°	8377.4	100.0

**Coefficient of Utilization**



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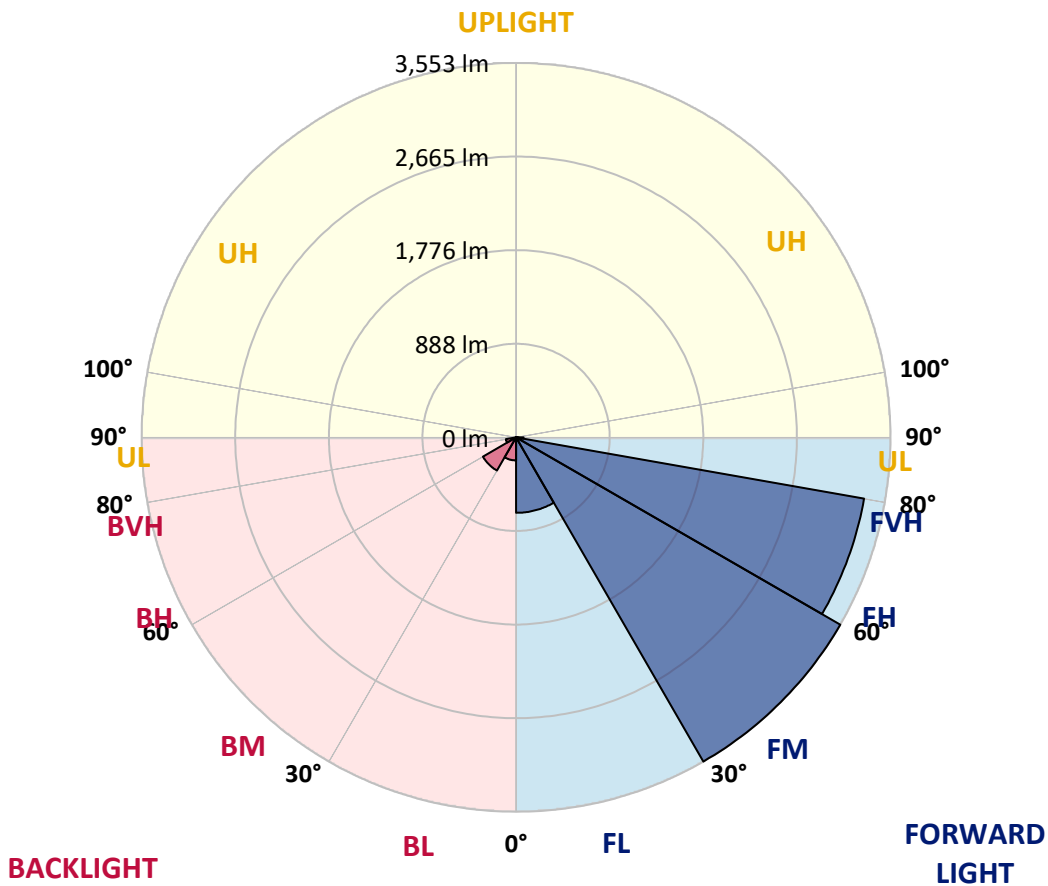
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	716.1	8.5			
FM (30°-60°)	3552.8	42.4			
FH (60°-80°)	3352.8	40.0			G2/5000
FVH (80°-90°)	70.7	0.8			G1/100
BL (0°-30°)	218.8	2.6	B1/500		
BM (30°-60°)	363.6	4.3	B1/1000		
BH (60°-80°)	97.7	1.2	B0/110		G0/110
BVH (80°-90°)	5.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5
2.5°	1528.3	1533.6	1532.8	1535.1	1529.8	1521.4	1519.9	1508.4	1487.9	1461.9	1433.0
5°	1559.5	1565.6	1561.0	1558.7	1548.8	1539.7	1537.4	1525.2	1501.6	1466.5	1416.2
7.5°	1586.2	1587.7	1584.7	1579.3	1564.8	1552.6	1544.3	1527.5	1499.3	1464.2	1406.3
10°	1590.8	1590.0	1591.5	1592.3	1583.1	1572.5	1565.6	1542.7	1506.9	1469.6	1407.1
12.5°	1585.4	1585.4	1595.3	1606.8	1606.8	1601.4	1594.6	1574.0	1532.1	1487.9	1422.3
15°	1592.3	1594.6	1613.6	1635.0	1641.8	1636.5	1633.4	1612.1	1568.7	1519.9	1449.7
17.5°	1616.7	1619.0	1649.4	1681.5	1689.8	1683.7	1677.7	1656.3	1609.8	1556.5	1481.0
20°	1652.5	1658.6	1697.5	1738.6	1746.3	1738.6	1726.4	1696.7	1650.2	1596.1	1510.7
22.5°	1718.0	1721.9	1763.8	1807.2	1811.0	1798.8	1780.6	1739.4	1690.6	1638.0	1544.3
25°	1804.9	1810.3	1852.2	1894.1	1884.2	1865.9	1840.8	1794.3	1738.6	1687.6	1586.9
27.5°	1908.6	1914.7	1955.9	1992.4	1966.5	1945.2	1917.0	1859.1	1802.7	1756.2	1641.8
30°	2020.7	2026.0	2062.6	2095.3	2061.0	2035.9	2002.4	1942.9	1885.7	1850.7	1719.6
32.5°	2128.9	2128.1	2163.2	2189.9	2154.8	2135.0	2104.5	2044.3	1998.5	1983.3	1835.4
35°	2229.5	2229.5	2258.5	2285.1	2260.0	2249.3	2221.1	2173.1	2147.2	2165.5	1990.2
37.5°	2330.9	2325.5	2353.0	2382.7	2380.4	2381.2	2365.2	2342.3	2343.8	2408.6	2202.8
40°	2414.7	2412.4	2444.4	2483.3	2513.8	2538.2	2528.3	2536.7	2584.7	2705.9	2474.9
42.5°	2481.8	2487.1	2528.3	2590.0	2667.0	2716.6	2723.4	2757.7	2881.2	3068.7	2782.1
45°	2558.8	2559.5	2616.7	2711.2	2833.9	2912.5	2939.9	3028.3	3203.6	3445.2	3119.0
47.5°	2653.3	2644.1	2708.2	2840.8	3018.4	3134.3	3183.0	3293.6	3564.9	3812.6	3393.4
50°	2757.7	2741.0	2813.4	2994.0	3225.0	3369.8	3468.9	3630.5	3923.2	4114.5	3597.7
52.5°	2878.9	2862.9	2945.2	3170.1	3472.7	3648.8	3776.0	3939.2	4230.3	4344.7	3719.6
55°	3032.9	3016.9	3103.8	3381.2	3765.4	3994.0	4127.4	4264.6	4516.2	4514.6	3808.1
57.5°	3203.6	3181.5	3301.9	3648.0	4130.5	4368.3	4504.0	4571.0	4733.4	4646.5	3867.5
60°	3399.5	3379.7	3546.6	3965.8	4552.0	4772.3	4857.6	4830.2	4911.8	4724.3	3846.9
62.5°	3576.3	3567.2	3774.5	4302.7	4953.7	5139.7	5163.3	5043.6	5042.9	4725.8	3708.2
65°	3760.0	3777.6	4085.5	4690.7	5357.7	5482.7	5442.3	5255.5	5095.5	4539.0	3298.1
67.5°	3828.6	3879.7	4290.5	5041.3	5676.3	5773.8	5702.9	5361.5	4876.7	3911.0	2511.5
70°	3404.8	3500.9	4096.9	5061.2	5808.1	5901.1	5731.1	5076.4	4065.7	2590.8	1375.8
72.5°	2589.3	2701.3	3414.0	4144.2	5223.5	5435.4	5145.0	4135.8	2620.5	1134.9	461.9
75°	1449.0	1570.2	2542.8	3120.5	3507.0	3700.6	3593.9	2653.3	1160.9	296.5	138.0
77.5°	490.1	530.5	1183.0	1930.7	2314.9	2141.1	1812.6	1317.9	426.8	112.8	73.2
80°	290.4	305.7	440.6	961.2	1218.0	1009.9	797.3	487.1	217.2	60.2	51.1
82.5°	86.9	102.9	243.1	356.7	477.2	297.3	251.5	278.2	112.8	32.8	42.7
85°	0.0	0.0	51.8	110.5	125.0	48.8	48.8	157.8	20.6	13.7	31.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.8	2.3	3.0	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5
2.5°	1412.4	1385.7	1354.5	1324.7	1296.5	1260.0	1242.4	1221.1	1202.8	1192.9	1198.2
5°	1384.2	1342.3	1278.2	1213.5	1147.9	1086.2	1030.5	993.2	959.6	942.1	945.9
7.5°	1359.8	1303.4	1203.5	1097.6	992.4	886.5	800.3	733.3	681.4	660.1	656.3
10°	1349.1	1278.2	1137.2	984.8	823.2	680.7	558.7	484.8	432.2	406.3	410.8
12.5°	1354.5	1265.3	1080.8	874.3	664.7	498.5	381.9	312.5	275.2	259.9	256.1
15°	1369.7	1262.2	1030.5	761.5	513.0	348.3	263.7	235.5	227.9	226.4	226.4
17.5°	1387.2	1263.0	978.7	647.1	389.5	258.4	225.6	220.3	218.0	216.5	217.2
20°	1404.8	1263.0	919.2	531.3	292.7	223.3	214.9	211.1	208.8	208.1	208.1
22.5°	1426.1	1263.0	852.9	423.8	234.8	211.9	205.0	202.8	200.5	199.7	198.9
25°	1452.0	1263.8	779.8	331.6	213.4	202.0	196.7	194.4	192.1	190.6	190.6
27.5°	1489.4	1269.9	699.0	258.4	201.2	192.8	188.3	186.0	183.7	181.4	181.4
30°	1543.5	1285.1	608.3	213.4	189.8	182.9	178.4	176.8	174.5	172.3	171.5
32.5°	1624.3	1311.8	514.5	191.3	179.1	172.3	166.9	165.4	163.1	160.8	160.1
35°	1737.1	1360.6	423.0	177.6	165.4	158.5	155.5	154.7	151.7	149.4	149.4
37.5°	1902.5	1439.8	335.4	163.9	154.0	148.6	144.8	143.3	140.2	138.0	137.2
40°	2104.5	1542.7	260.7	153.2	143.3	138.0	134.2	131.9	128.1	125.0	123.5
42.5°	2362.1	1668.5	205.8	141.8	133.4	128.1	125.0	120.4	115.1	110.5	109.8
45°	2630.4	1798.1	170.0	131.1	124.2	119.7	115.9	109.8	102.1	96.8	95.3
47.5°	2836.2	1878.9	148.6	119.7	114.3	110.5	105.9	98.3	89.2	83.1	81.6
50°	2983.3	1891.1	132.6	109.0	105.9	102.1	95.3	86.1	76.2	70.1	68.6
52.5°	3055.7	1836.2	119.7	99.1	96.8	93.0	84.6	74.7	64.0	57.9	56.4
55°	3088.5	1732.5	107.5	90.7	87.7	83.1	73.9	63.3	52.6	47.3	45.7
57.5°	3075.6	1579.3	96.8	82.3	78.5	73.2	63.3	51.8	43.4	38.1	37.3
60°	2979.5	1364.4	86.1	73.9	69.4	63.3	53.4	42.7	35.1	31.3	30.5
62.5°	2772.2	1097.6	75.5	64.0	61.0	54.9	45.7	35.1	29.0	26.7	25.9
65°	2347.6	775.9	64.8	54.1	52.6	46.5	38.1	29.0	25.2	23.6	22.9
67.5°	1687.6	471.8	54.9	46.5	45.0	39.6	32.0	25.2	22.9	22.1	22.1
70°	848.4	223.3	43.4	38.1	38.1	32.8	27.4	22.9	22.1	21.3	21.3
72.5°	288.1	95.3	32.8	29.7	31.3	28.2	23.6	21.3	21.3	21.3	21.3
75°	98.3	50.3	22.9	21.3	22.9	22.9	20.6	20.6	21.3	21.3	21.3
77.5°	64.0	33.5	16.0	14.5	17.5	17.5	17.5	19.1	20.6	20.6	20.6
80°	52.6	18.3	10.7	9.9	13.0	13.0	14.5	17.5	19.1	19.1	19.1
82.5°	45.0	11.4	6.1	6.9	9.1	9.9	12.2	14.5	16.8	17.5	17.5
85°	30.5	6.1	4.6	5.3	6.1	7.6	9.9	12.2	13.7	15.2	15.2
87.5°	8.4	2.3	3.0	3.8	3.8	5.3	7.6	9.1	10.7	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)